

## CLAIMS

1. An anti-theft system for a vehicle,  
comprising:

5 certifying means of an electronic key for  
getting in the vehicle, the means being for certifying the  
electronic key held by a person who intends to get in the  
vehicle;

human body certification information certifying  
10 means, the means being for confirming human body  
certification information of the person;

door lock control means for unlocking a vehicle  
door in a case where the electronic key is certified by  
the certifying means of the electronic key for getting in  
15 the vehicle and the human body certification information  
of the person is confirmed by the human body certification  
information certifying means in a state where the door is  
unlocked;

memory means for memorizing ID information of  
20 the electronic key when the vehicle door is unlocked by  
the door lock control means based on the electronic key  
being certified by the certifying means of the electronic  
key for getting in the vehicle and the human body  
certification information of the person is confirmed by  
25 the human body certification information certifying means;

certifying means of an electronic key for  
starting an engine, the means being for certifying the  
electronic key held by a person who intends to start the  
engine; and

30 engine starting control means for starting the  
engine of the vehicle in a case where the electronic key  
is certified by the certifying means of the electronic key  
for starting the engine and the electronic key is an

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electronic key whose ID information is memorized in the memory means, after the vehicle door is unlocked by the door lock control means.

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2. The anti-theft system for a vehicle as claimed in claim 1,

10           wherein the memory means memorizes, in advance, a maximum number of times for permitting starting the engine after the door is unlocked by the door lock control means, and

                  the engine starting control means allows  
15   starting the engine for the permitted maximum number of times memorized in the memory means by the electronic key which is certified by the certifying means of the electronic key for starting the engine and whose ID information is memorized in the memory means, after the  
20   door is unlocked by the door lock control means.

25           3. The anti-theft system for a vehicle as claimed in claim 1,

                  wherein the memory means memorizes, in advance, a maximum number of times for permitting starting the engine after the door is unlocked by the door lock control  
30   means, the maximum number being set for every electronic key which is certified and registered, and

                  the engine starting control means allows starting the engine for the permitted maximum number of

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times memorized in the memory means by the electronic key which is certified by the certifying means of the electronic key for starting the engine and whose ID information is memorized in the memory means, the maximum  
5 number corresponding to the electronic key and being memorized in the memory means, after the door is unlocked by the door locking control means .

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4. The anti-theft system for a vehicle as claimed in claim 1,

wherein the memory means memorizes, in advance,  
15 a maximum number of times for permitting starting the engine after the door is unlocked by the door lock control means, the maximum number being set for every person who is certified and registered, and

the engine starting control means allows  
20 starting the engine for the permitted maximum number of times memorized in the memory means by the electronic key which is certified by the certifying means of the electronic key for starting the engine and whose ID information is memorized in the memory means, the maximum  
25 number corresponding to the person whose human body certification information is confirmed by the human body information certifying means at the time when the door is unlocked by the door locking control means , the maximum number being memorized in the memory means, after the door  
30 is unlocked by the door locking control means.

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5. The anti-theft system for a vehicle as claimed in claims 2,

wherein the engine starting control means includes permission number reducing means for reducing the number of times of permission for starting the engine by using the electronic key which is certified by the certifying means of the electronic key for starting the engine and whose ID information is memorized in the memory means, when a designated time during which the engine is continued being run passes.

6. An anti-theft system for a vehicle, comprising:

certifying means of an electronic key for getting in the vehicle, the means being for certifying the electronic key held by a person who intends to get in the vehicle;

human body certification information certifying means, the means being for confirming human body certification information of the person;

door lock control means for unlocking a vehicle door in a case where the electronic key is certified by the certifying means of the electronic key for getting in the vehicle and the human body certification information of the person is confirmed by the human body certification information certifying means in a state where the door is unlocked;

writing means for writing information that the human body certification information is confirmed in the electronic key as readable or delete-able information,

when the vehicle door is unlocked by the door lock control means based on the electronic key being certified by the certifying means of the electronic key for getting in the vehicle and the human body certification information of  
5 the person being confirmed by the human body certification information certifying means ;

certifying means of an electronic key for starting an engine, the means being for certifying the electronic key held by a person who intends to start the  
10 engine ; and

engine starting control means for starting the engine of the vehicle in a case where the electronic key is certified by the certifying means of the electronic key for starting the engine and the information that the human  
15 body certification information is certified is written in the electronic key, after the vehicle door is unlocked by the door control means .

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7. An anti-theft system for a vehicle,  
comprising:

certifying means of an electronic key for  
25 starting a vehicle engine, the means being for certifying the electronic key held by a person who intends to start the vehicle;

human body certification information certifying means , the means being for confirming human body  
30 certification information of the person;

engine starting control means for starting the engine in a case where the electronic key is certified by the certifying means of the electronic key for starting

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the engine and the human body certification information of the person is confirmed by the human body certification information certifying means in a state where the engine is stopped running;

- 5                   memory means for memorizing ID information of the electronic key when the engine is started by the engine starting control means based on the electronic key being certified by the certifying means of the electronic key for starting the engine and the human body
- 10 certification information of the person being confirmed by the human body certification information certifying means ; certifying means of an electronic key for getting in the vehicle, the means being for certifying the electronic key held by a person who intends to get in the
- 15 vehicle; and
- door locking control means for unlocking the door in a case where the electronic key is certified by the certifying means of the electronic key for getting in the vehicle and the electronic key is an electronic key
- 20 whose ID information is memorized in the memory means, after the engine is started by the engine starting control means .

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8. The anti-theft system for a vehicle as claimed in claim 7,
- wherein the memory means memorizes, in advance,
- 30 a maximum number of times for permitting unlocking the door after the engine is started by the engine starting control means , and
- the door locking control means allows unlocking

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the door for the permitted maximum number of times  
memorized in the memory means by the electronic key which  
is certified by the certifying means of the electronic key  
for getting in the vehicle and whose ID information is  
5 memorized in the memory means, after the engine is started  
by the engine starting control means .

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9. The anti-theft system for a vehicle as  
claimed in claim 7,

wherein the memory means memorizes, in advance,  
a maximum number of times for permitting unlocking the  
15 door after the engine is started by the engine starting  
control means , the maximum number of times being set for  
every electronic key which is certified and registered,  
and

the door locking control means allows unlocking  
20 the door for the permitted maximum number of times  
memorized in the memory means by the electronic key which  
is certified by the certifying means of the electronic key  
for getting in the vehicle and whose ID information is  
memorized in the memory means, the maximum number  
25 corresponding to the electronic key and being memorized in  
the memory means , after the vehicle is started by the  
engine starting control means .

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10. The anti-theft system for a vehicle as  
claimed in claim 7,

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wherein the memory means memorizes, in advance,  
a maximum number of times for permitting unlocking the  
door after the engine is started by the engine starting  
control means, the maximum number being set for every  
5 person who is certified and registered, and  
the door locking control means allows unlocking  
the door for the permitted maximum number of times  
memorized in the memory means by the electronic key which  
is certified by the certifying means of the electronic key  
10 for getting in the vehicle and whose ID information is  
memorized in the memory means, the maximum number  
corresponding to the person whose human body certification  
information is confirmed by the human body information  
certifying means at the time when the engine is started by  
15 the engine starting control means, the maximum number  
being memorized in the memory means, after the engine is  
started by the engine starting control means.

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11. The anti-theft system for a vehicle as  
claimed in one of claim 8,  
wherein the door locking control means includes  
25 permission number reducing means for reducing the number  
of time of permission for unlocking the door by using the  
electronic key which is certified by the certifying means  
of the electronic key for getting in the vehicle and whose  
ID information is memorized in the memory means, when the  
30 vehicle door is unlocked and then opened.

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12. An anti-theft system for a vehicle,  
comprising:

certifying means of an electronic key for  
starting a vehicle engine, the means being for certifying  
5 the electronic key held by a person who intends to start  
the vehicle;

human body certification information certifying  
means, the means being for confirming human body  
certification information of the person;

10 engine starting control means for starting the  
engine in a case where the electronic key is certified by  
the certifying means of the electronic key for starting  
the engine and the human body certification information of  
the person is confirmed by the human body certification  
15 information certifying means in a state where the engine  
is stopped running;

writing means for writing information that the  
human body certification information is confirmed to the  
electronic key as readable or delete-able information,  
20 when the engine is started by the engine starting control  
means based on the electronic key being certified by the  
certifying means of the electronic key for starting the  
engine and the human body certification information of the  
person being confirmed by the human body certification  
25 information certifying means;

certifying means of an electronic key for  
getting in the vehicle, the means being for certifying the  
electronic key held by a person who intends to get in the  
vehicle; and

30 door locking control means for unlocking the  
door in a case where the electronic key is certified by  
the certifying means of the electronic key for getting in  
the vehicle and information that the human body

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certification information is confirmed is written in the electronic key, after the engine is started by the engine starting control means .

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